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30593 7590 09/02/2004  
HARNES, DICKEY & PIERCE, P.L.C.  
P.O. BOX 8910  
RESTON, VA 20195  
12/03/2004 HNGUYEN2 00000077 09752615

01 FC:1501 1370.00 DP  
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| (Depositor's name) |
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| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/752,615      | 12/27/2000  | Sung-min Yim         | AB-1053 US          | 1304             |

TITLE OF INVENTION: OUTPUT DRIVERS PREVENTING DEGRADATION OF CHANNEL BUS LINE IN A MEMORY MODULE EQUIPPED WITH SEMICONDUCTOR MEMORY DEVICES INCLUDING THE OUTPUT DRIVERS

| APPLN. TYPE      | SMALL ENTITY | ISSUE FEE              | PUBLICATION FEE | TOTAL FEE(S) DUE       | DATE DUE   |
|------------------|--------------|------------------------|-----------------|------------------------|------------|
| nonprovisional   | NO           | <del>\$1330</del> 1370 | \$300           | <del>\$1630</del> 1670 | 12/02/2004 |
| EXAMINER         | ART UNIT     | CLASS-SUBCLASS         |                 |                        |            |
| CLEARY, THOMAS J | 2111         | 710-305000             |                 |                        |            |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
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2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. HARNES DICKEY & PIERCE,  
P.L.C.  
2. \_\_\_\_\_  
3. \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

SAMSUNG ELECTRONICS CO., LTD

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

416, MAETAN-DONG, PALDAL-GU  
SUWON-CITY, REPUBLIC OF KOREA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

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- ☐ A check in the amount of the fee(s) is enclosed.
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5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☒ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature \_\_\_\_\_  
Typed or printed name John A. Castellano

Date December 2, 2004  
Registration No. 35,094

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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